



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,780	11/08/2001	Jane Dashevsky	INTL-0687-US (P13046)	1349
21906	7590	07/27/2006	EXAMINER	
TROP PRUNER & HU, PC 1616 S. VOSS ROAD, SUITE 750 HOUSTON, TX 77057-2631			GESESSE, TILAHUN	
			ART UNIT	PAPER NUMBER
			2618	

DATE MAILED: 07/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/005,780	DASHEVSKY ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Tilahun B. Gesessse	2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 17 April 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-15 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-15 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
     1. Certified copies of the priority documents have been received.  
     2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
     3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                     | Paper No(s)/Mail Date. _____ .  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____ .                                  |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments filed April 17, 2006 have been fully considered but they are not persuasive.

Trost teaches Bluetooth devices such as 105(A-F) in which enables coupled other devices , such as wired telephone set , printer and computer and FAX machine (see fig.1). Bluetooth is short range wireless interfacing device, Bluetooth has hardware and firmware part in order to perform its wireless connection with other devices, for example , a computer transmits data to a printer , then the BT attached to the computer determines the range of the printer in order to transmit data to the printer. The Bluetooth to perform its task , it run functions continues to interface HCI firmware 1513 with link manager firmware 1515 of fig. 15.

The link manager is user to negotiate packet between Bluetooth devices, which means Bluetooth devices ,see fig.1. The host controller interface communicates with physical layer in the Bluetooth , page 4, paragraph 0070.

In other word, host controller interface firmware continues to run to interface with the link manager firmware and the link manager interfaces physical layer couples data into the Bluetooth RF via antenna 1525.

Further more, the link manager firmware is a link manager software which interfaces the link or connection of the different part of Bluetooth soft ware and hardware.

On the other hand , Trost teaches the host controller interface firmware , system wide state of the wireless device and link manager firmware handles the state all links in the Bluetooth device.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-15 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over **Trost et al (US patent Publication 2002/0151275)**.

Claim 1. Trost teaches a method comprising (a method of handling the assembling and managing communication packet and transmission, providing modulo devices, and allocating memory are typically firmware tasks for a blue tooth devices, that is , the BT (Bluetooth) wireless interfacing firmware communicates with devices within their range of wireless link and manages the exchange of packets of data, see abstract and figure 1) handling the system-wide state of a wireless device through the

host controller interface firmware (handling the assembling and managing communication packet and transmission , providing modulo devices, and allocating memory are typically firmware tasks for blue tooth devices, that is , the BT (Bluetooth) wireless interfacing firmware communicates with devices within their range of wireless link and manages the exchange of packets of data, see abstract, , page 2, paragraph 0041 and figure 1) and Trost teaches handling the state each link with the device through the link manager firmware (see pages 5 and 7, paragraphs 0072,0076,0089 and 0096).

Claim 2. Trost teaches initiating communications with connection and link management (page 2, paragraphs 0042- 0043).

Claim 3. Trost teaches establishing a connection between the device and an end point ( see page2, paragraph 0041, in which A PDA (103) and wireless transceiver (105), and the devices in figure 1, can communicate with each using Bluetooth radio frequency (RF) connections without interconnecting cables, that PDA communicates with wireless transceiver end point) .

Claim 4. Trost teaches handling base band handshaking through the host controller interface firmware (see page 7, paragraph 0089 and figure 15) where base band coupled with host controller interface firmware (HCl firmware).

Claim 5. Trost teaches handling logical link connection through the link manager firmware (see page 7, paragraph 0089 and figure 15).

Claims 6 and 11 Trost teaches An article (see abstract) comprising a medium storing instructions that enable a processor-based system to (see page 5, paragraph

0076,0079) handle the system-wide state of a wireless device through the host controller interface firmware (handling the assembling and managing communication packet and transmission , providing modulo devices, and allocating memory are typically firmware tasks for blue tooth devices, that is , the BT (Bluetooth) wireless interfacing firmware communicates with devices within their range of wireless link and manages the exchange of packets of data, see abstract, , page 2, paragraph 0041 and figure 1) and handle the state of each link with the device through the link manager firmware (see pages 5 and 7, paragraphs 0072,00760089 and 0096).

Claim 7. Trost teaches storing instructions that enable the processor-based system to initiate communications with connection and link management (page 2, paragraphs 0042- 0043).

Claim 8. Trost teaches storing instructions that enable the processor-based system to establish a connection between the device and an end point (see page2, paragraph 0041, in which A PDA (103) and wireless transceiver (105), and the devices in figure 1, can communicate with each using Bluetooth radio frequency (RF) connections without interconnecting cables, that PDA communicates with wireless transceiver end point).

Claim 9. Trost teaches storing instructions that enable the processor-based system to handle baseband handshaking through the host controller interface firmware see page 7, paragraph 0089 and figure 15) where base band coupled with host controller interface firmware (HCI firmware).

Claim 10. Trost teaches storing instructions that enable the processor-based system to handle logical connection through the link manager firmware see page 7, paragraph 0089 and figure 15).

Claim 12. Trost teaches said storage stores instructions that enable the processor initiate communications with connection and link management page 2, paragraphs 0042- 0043).

Claim 13. Trost teaches The system of claim wherein said storage stores instructions that enable the processor to establish connection between the system and a remote end point (see page2, paragraph 0041, in which A PDA (103) and wireless transceiver (105), and the devices in figure 1, can communicate with each using Bluetooth radio frequency (RF) connections without interconnecting cables, that PDA communicates with wireless transceiver end point).

Claim 14. Trost teaches said storage stores instructions that enable the processor to handle base band handshaking through the host controller interface firmware see page 7, paragraph 0089 and figure 15) where base band coupled with host controller interface firmware (HCI firmware).

15. Trost teaches said storage stores instructions that enable the processor to handle logical link connection through the link manager firmware(see page 7, paragraph 0089 and figure 15).

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Phillips teaches the Host controller interface (HCI) provides a command interface to the link manager 22 and access to hardware status and control register and using the HCI firmware 25 provides uniform method of accessing the base band and implement the HCI firmware command for the system hardware (see col. 4, lines 36-45).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899.

The Central FAX Number is 571-273-8300. For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TG

7/18/06

  
TILAHUN GESESSE  
PRIMARY EXAMINER